

AMENDMENTS TO THE CLAIMS

Claims 1-9 (Canceled)

Claim 10 (New) A speculative recording device (1200d) comprising:

profile extracting means (110) for extracting a user profile (Pu) which indicates a preference of a user in viewing programs based on an operation by the user;

program list managing means (106) for acquiring attributes (IP) of a program;

speculation selecting means (111) for selecting a program to be speculatively recorded based on the user profile (Pu) and the attributes (IP) of the program;

storage managing means (107) for accumulating program data (DP);

speculative recording managing means (112) for erasing the program data (DP) accumulated in the storage managing means (107) when necessary and for recording program data (DP) selected by the speculation selecting means (111);

user interface controlling means (S603 to S605) for converting a state of the program data accumulated in the storage managing means (107) between a temporarily-stored state and a permanently-stored state in accordance with a request from the user; and

chasing means for, after beginning a process of accumulating a currently-broadcast program into a file in the temporarily-stored state from a record starting timing to an end of the program, beginning to play back the file at a playback starting timing, wherein the user interface controlling means (S603 to S605) inputs the record starting timing and the playback starting timing from the user.

Claim 11 (New) A speculative recording device (1200c) comprising:

profile extracting means (110) for extracting a user profile (Pu) which indicates a preference of a user in viewing programs based on an operation by the user;

program list managing means (106) for acquiring attributes (IP) of a program;

speculation selecting means (111) for selecting a program to be speculatively recorded based on the user profile (Pu) and the attributes (IP) of the program;

storage managing means (107) for accumulating program data (DP);
speculative recording managing means (112) for erasing the program data (DP)
accumulated in the storage managing means (107) when necessary and for recording program
data (DP) selected by the speculation selecting means (111);
user interface controlling means (S603 to S605) for converting a state of the program data
accumulated in the storage managing means (107) between a temporarily-stored state and a
permanently-stored state in accordance with a request from the user, wherein the program data
(DP) accumulated in the storage managing means (107) is in either one of the temporarily-stored
state and the permanently-stored state, and the speculative recording managing means (112)
erases, among the program data (DP) accumulated in the storage managing means (107), a piece
of program data (DP) in the temporarily-stored state when necessary and records the program
data (DP) selected by the speculation selecting means (111) in the temporarily-stored state; and
chasing means (S705) for, after beginning a process of accumulating a currently-broadcast
program into a file in the temporarily-stored state from a record starting timing to an end of the
program, beginning to play back the file at a playback starting timing.

Claim 12 (New) A speculative recording device (1200d) comprising:

profile extracting means (110) for extracting a user profile (Pu) which indicates a
preference of a user in viewing programs based on an operation by the user;
program list managing means (106) for acquiring attributes (IP) of a program;
speculation selecting means (111) for selecting a program to be speculatively recorded
based on the user profile (Pu) and the attributes (IP) of the program;
storage managing means (107) for accumulating program data (DP);
speculative recording managing means (112) for erasing the program data (DP)
accumulated in the storage managing means (107) when necessary and for recording program
data (DP) selected by the speculation selecting means (111);
user interface controlling means (S603 to S605) for converting a state of the program data
accumulated in the storage managing means (107) between a temporarily-stored state and a

permanently-stored state in accordance with a request from the user, wherein the program data (DP) accumulated in the storage managing means (107) is in either one of the temporarily-stored state and the permanently-stored state, and the speculative recording managing means (112) erases, among the program data (DP) accumulated in the storage managing means (107), a piece of program data (DP) in the temporarily-stored state when necessary and records the program data (DP) selected by the speculation selecting means (111) in the temporarily-stored state; and chasing means for, after beginning a process of accumulating a currently-broadcast program into a file in the temporarily-stored state from a record starting timing to an end of the program, beginning to play back the file at a playback starting timing, wherein the user interface controlling means inputs the record starting timing and the playback starting timing from the user.

Claim 13 (New) A speculative recording device (1200e) comprising:

profile extracting means (110) for extracting a user profile (Pu) which indicates a preference of a user in viewing programs based on an operation by the user;

program list managing means (106) for acquiring attributes (IP) of a program;

speculation selecting means (111) for selecting a program to be speculatively recorded based on the user profile (Pu) and the attributes (IP) of the program;

storage managing means (107) for accumulating program data (DP);

speculative recording managing means (112) for erasing the program data (DP) accumulated in the storage managing means (107) when necessary and for recording program data (DP) selected by the speculation selecting means (111);

user interface controlling means (S603 to S605) for converting a state of the program data accumulated in the storage managing means (107) between a temporarily-stored state and a permanently-stored state in accordance with a request from the user, wherein the program data (DP) accumulated in the storage managing means (107) is in either one of the temporarily-stored state and the permanently-stored state, and the speculative recording managing means (112) erases, among the program data (DP) accumulated in the storage managing means (107), a piece

of program data (DP) in the temporarily-stored state when necessary and records the program data (DP) selected by the speculation selecting means (111) in the temporarily-stored state; and communication means (901) for communicating with a network (920) connected with one or more remotely-located program recording devices (1200er, 912), wherein when the user interface controlling means (S603 to S605) performs an operation of converting a state of a piece of program data selected by the user from among programs accumulated by the remotely-located program recording devices and the program data (DP) accumulated in the storage managing means (107) into the permanently-stored state in accordance with a request from the user while utilizing the communication means (901), if the piece of program data selected by the user is a piece of program data accumulated in one of the remotely-located recording devices (1200er), the selected piece of program data is taken into the storage managing means (107) via the communication means (901) to be converted into the permanently-stored state.

Claim 14 (New) The speculative recording device (1200f) according to claim 13, wherein the user interface controlling means (S603 to S605) inputs a record starting timing and a playback starting timing from the user; the device further comprises chasing means for, after beginning a process of accumulating a currently-broadcast program into a file in the temporarily-stored state from a record starting timing to an end of the program, beginning to play back the file at a playback starting timing; and when there is a program data file which is program data (DP) accumulated in one of the remotely-located program recording devices (1200fr) and which is of a program identical to a currently-broadcast program to be accumulated by the chasing means (S603 to S605), the chasing means starts, by utilizing the communication means (901), playing back the program data file of the identical program at the playback starting timing.

Claim 15 (New) The speculative recording device according to claim 14, wherein the chasing means starts playing back the program data file of the identical program at the playback

starting timing and, at a time point of the record starting timing or later, changes the played-back file from the identical file to a file conducted for the storage managing means.

Claim 16 (New) A speculative recording device (1200g) comprising:

profile extracting means (110) for extracting a user profile (Pu) which indicates a preference of a user in viewing programs based on an operation by the user;

program list managing means (106) for acquiring attributes (IP) of a program;

view request inference means (111) for, based on the user profile (Pu) and the attributes (IP) of the program, creating a speculation score (Ps) indicating a degree (Ps) of a view request of the user for the program;

speculation selecting means (111) for selecting a program to be speculatively recorded based on the speculation score (Ps);

storage managing means (107) for accumulating program data (DP);

speculative recording managing means (112) for erasing the program data (DP) accumulated in the storage managing means (107) when necessary and for recording program data (DP) selected by the speculation selecting means (111);

communication means (901) for communicating with a network (920) connected with one or more remotely-located program recording devices (1200gr, 912);

speculatively-to-be-recorded program identification means (106) for creating speculatively-to-be-recorded program information (Ip) identifying the selected program which is to be speculatively recorded; and

speculative recording request means (113, 901) for giving a request to one of the remotely-located program recording devices (1200gr) to perform a preprogrammed recording of the selected program, with the speculatively-to-be-recorded program information (Ip) and speculation score (Ps) of the selected program.

Claim 17 (New) A speculative recording device (1200g) comprising:

profile extracting means (110) for extracting a user profile (Pu) which indicates a preference of a user in viewing programs based on an operation by the user;

program list managing means (106) for acquiring attributes (IP) of a program;

view request inference means (111) for, based on the user profile (Pu) and the attributes (IP) of the program, creating a first speculation score (Ps(1200g)) indicating a degree (Ps) of a view request of the user for the program;

speculation selecting means (111) for selecting a program to be speculatively recorded based on the speculation score (Ps);

speculatively-to-be-recorded program identification means (106) for creating speculatively-to-be-recorded program information (Ip) identifying the selected program which is to be speculatively recorded;

storage managing means (107) for accumulating program data (DP);

speculative recording managing means (112) for erasing the program data (DP) accumulated in the storage managing means (107) when necessary and for recording program data (DP) selected by the speculation selecting means (111);

communication means (901) for communicating with a network (920) connected with one or more remotely-located program recording devices (1200g, 912);

record preprogramming request receiving means (901, 112) for receiving, along with program identification information (IR) identifying at least one program and a second speculation score (Ps(1200g)) indicating a degree of the view request for the program, a preprogrammed recording request of the program from one of the remotely-located program recording devices (1200g); and

preprogrammed recording program selecting means for determining a program of which a preprogrammed recording is to be performed based on the first speculation score and the second speculation score, when it is impossible to record the program of which a preprogrammed recording was requested and the program which is to be speculatively recorded simultaneously.